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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/524,027

02/09/2005

Takashi Kakiuchi

2005\_0063A

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52349 7590 10/05/2007  
WENDEROTH, LIND & PONACK L.L.P.  
2033 K. STREET, NW  
SUITE 800  
WASHINGTON, DC 20006

EXAMINER

WEINSTEIN, LEONARD J

ART UNIT

PAPER NUMBER

3746

MAIL DATE

DELIVERY MODE

10/05/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/524,027

Applicant(s)

KAKIUCHI ET AL

Examiner

Leonard J. Weinstein

Art Unit

3746

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 18 July 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-4, 7, 9 and 10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4, 7, 9 and 10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 July 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

1. This office action is in response to the amendment of July 18, 2007. In making the below rejections and/or objections the examiner has considered and addressed each of the applicant's arguments.

#### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-2, 4, and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Dreiman et al. 6,135,727. Dreiman teaches all the limitations as claimed for a hermetic compressor including: an electric driving element, elements 34 and 38, a compressing element 50 driven by the electric driving element, elements 34 and 38, and a closed vessel, as defined by elements 22 and 24, for housing the electric driving element, elements 34 and 38, and the compressing element 50, wherein the compressing element 50 comprises, a shaft 42 having an eccentric shaft portion 82, a spindle portion 92 provided at a bottom surface of the eccentric shaft portion 82 and an auxiliary shaft portion 96 provided at a top surface of the eccentric shaft portion 82 so as to be coaxial with the spindle portion 92, a cylinder block, defined by elements 44 and 76, provided with a compression chamber 66, a main bearing 68 provided on the cylinder block, defined by elements 44 and 76, so as to support the spindle portion 92, an auxiliary bearing 70 provided on the cylinder block, element 76 of elements 44 and 76, so as to support the auxiliary shaft portion 96, a piston 56 reciprocating in the compression chamber 66, and a connecting member 53 for connecting the piston 56 and the eccentric shaft portion 82,

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wherein a first balance weight 106 is provided on the auxiliary shaft portion 96 at a top end of the eccentric shaft portion 82, wherein a second balance weight 92a is provided on the spindle portion 92 at a bottom end of the eccentric shaft portion 82, and wherein the first balance weight 106 is coupled to the auxiliary shaft portion 96 by a separate member 142; a separate member 142 is a screw, as shown in figure 4, and wherein the auxiliary shaft portion 96 and the first balance weight 106 are coupled to each other by the screw 142 so as to be fixed, as elements 110 and 114 are operatively fixed to element 96 by element 142; an auxiliary shaft portion 96 and the first balance weight 106 are provided with a concave part, element 128 of element 110, and a convex part, element 146 of element 114, respectively, such that the concave part, element 128 of element 110, and the convex part, element 146 of element 114, fit together, as shown in figure 3B, so as to position the first balance weight 106; and a main bearing 60 is coupled with the cylinder block, element 44 and 76, by a fastening member, bolt element as shown in figure 1 disposed below element 92a.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.

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4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
6. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dreiman et al. 6,135,727. Dreiman teaches all the limitations as discussed but fails to teach the limitation of a rivet being a separate member for coupling a first balance weight to an auxiliary shaft portion. With regards to the limitation of a rivet for coupling elements of the compressor as discussed, the examiner takes official notice. The limitation of a rivet connecting two elements capable of being connected in the alternative by the use of screws, is well-known means of fastening components together and is considered to be common knowledge in the art, and further is capable of instant and unquestionable demonstration as being well-known.
7. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dreiman et al. 6,135,727. Dreiman teaches all the limitations as discussed including an auxiliary shaft portion 96, a sliding portion 80 within an auxiliary bearing 70, and a hole 138 through which a screw passes 142 and discloses the general conditions of the claimed invention except for the express disclosure of a distance of no less than 1/2 of a diameter of a hole between a top end of the sliding portion and a top end of an auxiliary shaft portion, and a distance of no less than 1/2 of a diameter of a hole between a bottom end of the sliding portion and a bottom end of the auxiliary shaft portion. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a top and bottom end of a sliding portion at a predetermined distance from a top and bottom end of an auxiliary shaft portion, since the claimed values are merely an optimum or workable range. It has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

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8. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dreiman et al. 6,135,727 as applied to claim 3 above. As discussed Dreiman teaches all the limitations including an auxiliary shaft portion 96, a sliding portion 80 within an auxiliary bearing 70, and a hole 138 through which a fastener means passes 142 and discloses the general conditions of the claimed invention except for the express disclosure of a distance of no less than 1/2 of a diameter of a hole between a top end of the sliding portion and a top end of a auxiliary shaft portion, and a distance of no less than 1/2 of a diameter of a hole between a bottom end of the sliding portion and a bottom end of the auxiliary shaft portion. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a top and bottom end of a sliding portion at a predetermined distance from a top and bottom end of an auxiliary shaft portion, since the claimed values are merely an optimum or workable range. It has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

### ***Response to Arguments***

9. Applicant's arguments with respect to claims 1-2, and 7 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of

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the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonard J. Weinstein whose telephone number is 571-272-9961. The examiner can normally be reached on Monday - Thursday 7:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Stashick can be reached on 571-272-4561. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



LJW



ANTHONY D. STASHICK  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3700